

Result & Analysis

Student: Valliappan L

Test: SIST_2022_SEAT_002

Course: 2023 SEAT Tests

Attempt 1

IP Address: 122.164.51.181 Tab switches: 5 OS used: Windows Browser used: Chrome

Test Duration: 01:27:57

Test Start Time: Dec 10, 2021 | 10:00 AM

Test Submit Time: Dec 10, 2021 | 11:29 AM

Overall score



Rank: NA

Topper score: 60.00 / 75

Average score: 29.63 / 75

Least score: 0.00 / 75

Quants



Rank: NA

Topper score: 18.00 / 20

Average score: 9.90 / 20

Least score: 0.00 / 20

Reasoning



Rank: NA

Topper score: 16.00 / 20

Average score: 7.18 / 20

Least score: 0.00 / 20

Verbal



Rank: NA

Topper score: 20.00 / 20

Average score: 10.28 / 20

Least score: 0.00 / 20

Coding



Rank: NA

Topper score: 15.00 / 15

Average score: 2.27 / 15

Least score: 0.00 / 15

Overall Question Status

Total Questions: 61
Questions Attempted: 61
Questions Correct: 32
Question Wrong: 28
Partially Correct: 1
Question Not Viewed: 0

Quants - Question Status

Total Questions: 20
Questions Attempted: 20
Questions Correct: 12
Question Wrong: 8
Partially Correct: 0
Question Not Viewed: 0

Reasoning - Question Status

Total Questions: 20
Questions Attempted: 20
Questions Correct: 10
Question Wrong: 10
Partially Correct: 0
Question Not Viewed: 0

Verbal - Question Status

Total Questions: 20
Questions Attempted: 20
Questions Correct: 10
Question Wrong: 10
Partially Correct: 0
Question Not Viewed: 0

Coding - Question Status

Total Questions: 1
Questions Attempted: 1
Questions Correct: 0
Question Wrong: 0
Partially Correct: 1
Question Not Viewed: 0

Topic wise Analysis

Quants

Reasoning

Ver

Question No: 1

Multi Choice Type Question

[Report Error](#)

Express 44.55555..... into its fraction

☐ $\frac{444}{9}$

☐ $\frac{444}{11}$

☐ $\frac{401}{11}$

☐ $\frac{401}{9}$

CORRECT

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Medium

Question type: MCQ Single Correct

Subject: Aptitude

Subject: Quantitative Ability

Subject: Number systems

☒ Show solution

Solution 1:

Let $x = 44.55555$ Let $x = 44.55555$

multiplying by 10 on both sides, we get

$$\Rightarrow 10x = 445.5555$$

$$9x = 401$$

$$x = 401/9$$

Question No: 2

Multi Choice Type Question

[Report Error](#)

A hybrid based Mutual fund scheme was introduced by a financial lender to attract more customers as its interest rate were quite decent and less risky. Gowri decided to invest in this scheme and notices that in 2 years she got Rs.4840 and in 3 years she got Rs. 5324, for the same principal, invested. Assuming this scheme works on Compound interest, find the rate percent?

☐ 6%

☐ 10%

CORRECT

☐ 12%☐ 15%**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct**Subject:** Aptitude**Subject:** Quantitative Ability**Subject:** Compound interest☒ Show solution**Solution 1:**

CI of 3 yrs = Rs 5324 ----(1)

CI of 2 yrs = Rs 4840 --- (2)

subtracting (2) from (1), we get CI of 3rd year = $5324 - 4840 = \text{Rs } 484$

Thus, the CI calculated in the third year which is Rs 484 is basically the amount of interest on the amount generated after 2 years which is Rs 4840
 $\therefore 484 \times 100 / 4840 \times 1 = 10\%$

Question No: 3**Multi Choice Type Question****Report Error**

Ajay lent Rs.8000 to Babu for 2 years and Rs.2500 to Charles for 4 years and received altogether from both Rs.1560 as simple interest. The rate of interest is:

☐ 6%

CORRECT

☐ 8%☐ 10%☐ 5%**Status:** Wrong**Mark obtained:** 0/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct**Subject:** Aptitude**Subject:** Quantitative Ability**Subject:** SI and CI (Difference)

☒ Show solution**Solution 1:**

$$P1=8000$$

$$P2=2500$$

$$T1=2$$

$$T2=4$$

$$SI = 15608000 \times R \times 2/100 + 2500 \times R \times 4/100 = 1560R[(8000 \times 2) + (2500 \times 4)] = 156000R = 6\%$$

Question No: 4**Multi Choice Type Question****Report Error**

A man walked diagonally across a square lot. Approximately, what was the percent saved by not walking along the edges?

☐ 25%☐ 30%**CORRECT**☐ 24%☐ 22%**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Hard**Question type:** MCQ Single Correct**Subject:** Aptitude**Subject:** Quantitative Ability**Subject:** Mensuration☒ Show solution**Solution 1:**

Let the side of the square(ABCD) be x metres.

Then, AB + BC = 2x metres.

$$AC = 2x = (1.41x) \text{ m.}$$

Saving on 2x metres = (0.59x) m.

$$\text{Saving \%} = (0.59x/2x) \times 100 \% = 30\% \text{ (approx.)}$$

Question No: 5**Multi Choice Type Question****Report Error**

Question No: 5

Multi Choice Type Question

Report Error

A palindrome is a number that reads the same left to right as it does from right to left, such as 252. How many six-digit palindromes are there which are even?

- ☐ 900
- ☐ 500
- ☐ 9×10^5
- ☐ 400

CORRECT

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Hard

Question type: MCQ Single Correct Subject: Aptitude Subject: Quantitative Ability

Subject: Permutation

☒ Show solution

Solution 1:

In a six-digit palindrome, the first 3 digits should be same as next 3, so we can do our permutations only in first 3.

The first digit should be the same as last digit and it has to be even for the whole number to be even. First digit cannot be zero, so there are only 4 possibilities for the first digit. The remaining two digits can be any number from 0 to 9, so 10 possibilities for each.

Therefore, a total number of six-digit even palindromes would be $4 \times 10 \times 10$.

Question No: 6

Multi Choice Type Question

Report Error

A shopkeeper has two types of rice, the first type costs Rs.40 per kg and the cost of the second type is not known. To gain 30% on the whole, he mixed 20 kg of first type rice with 40kg of second type rice and sold the mixture at Rs.78 per kg. By what percentage is the cost of second type rice more than the cost of first type rice?

- ☐ 70%
- ☐ 72%

☐ 75%

CORRECT

☐ 77%**Status:** Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Hard**Question type:** MCQ Single Correct**Subject:** Aptitude**Subject:** Quantitative Ability**Subject:** Averages☒ Show solution**Solution 1:**

Given that,

Profit on the whole mixture = 30%

SP of the mixture = Rs.78 per kg

So, CP of the mixture = $78 * (100/30) = \text{Rs.}60 \text{ per kg}$

By alligation -

40 x

60

20 40

So, $(60-40)/(x-60) = 40/20 = 2/1$ $\Rightarrow x - 60 = 10$ $\Rightarrow x = 70$ The cost of the 2nd type of rice = Rs.70 per kgRequired % = $[(70 - 40)/40] * 100 = 75\%$ **Question No:** 7**Multi Choice Type Question****Report Error**Find the mean proportional between $9a^2b$ and $25b^3$.

☐ $15ab^2$

☐ $-15ab^2$

☐ $\pm 15ab^2$

CORRECT

☐ $\pm 15a^2b$

Status: Wrong

Mark obtained: 0/1

Hints used: 0

Level: Hard

Question type: MCQ Single Correct Subject: Aptitude Subject: Quantitative Ability

Subject: Ratio and Proportion

☒ Show solution

Solution 1:

Let x be the mean proportional, then $9a^2b/x = x/25b^3 \Rightarrow \pm 15ab^2$.

Question No: 8

Multi Choice Type Question

Report Error

A man sells two flats for Rs. 8000 each. neither loosing nor gaining in the deal. If he sold one at a gain of 25%, the other commodity sold at a loss of:

☐ 50/3 %

CORRECT

☐ 18/3 %

☐ 25 %

☐ 32 %

Question No: 9

Multi Choice Type Question

Report Error

Status: Correct **Mark obtained:** 1/1 **Hints used:** 0 **Level:** Hard
 Ravi has got only 2,5,10,20 and 50 paise coins with him. Now how many minimum number of coins he needed to pay an amount of 78 paise, 69 paise and Re 1.01 to three different persons?
Question type: MCQ Single Correct **Subject:** Aptitude **Subject:** Quantitative Ability
Subject: Profit and Loss

☒ Show solution

CORRECT

Solution 1:

☐ 20

3.

☐ 17

C.P of 2nd = Rs, (16000 - 6400) = Rs. 9600.

☐ 18

, % = 50/3%

Status: Correct**Mark obtained:** 1/1**Hints used:** 0**Level:** Medium**Question type:** MCQ Single Correct **Subject:** Aptitude**Subject:** Quantitative Ability**Subject:** Number systems
☒ Show solution

Solution 1:

No. of coins used to give three different amounts are as follows :

78paise = 50+ 10p + 10 +2 + 2 + 2 + 2 =7

69paise =50 + 10 + 5 + 2 + 2 =5

1.01Re = 50 + 25 + 10 + 10 + 2 + 2 + 2 =7

Hence, $7 + 5 + 7 = 19$ coins

Question No: 10

Multi Choice Type Question

Report Error

If $3^{(X-2)} = 5$ and $\log_{10} 2 = 0.20103$, $\log_{10} 3 = 0.4771$, then $X = ?$

☐ 1 22187/47710

☐ 2 22187/47710

☐ 3 22187/47710 CORRECT

☐ None of these

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Hard

Question type: MCQ Single Correct Subject: Aptitude

Subject: Quantitative Ability

Subject: Log

☒ Show solution

Solution 1:

$$\begin{aligned} 3^{X-2} &= 5 \Rightarrow 3^X = 45 = 90/2 \\ \Rightarrow X \log_{10} 3 &= \log_{10} 90 - \log_{10} 2 \\ &= 2 \log_{10} 3 + 1 - \log_{10} 2 \\ &= X(0.4771) = 1.65317 \\ \Rightarrow X &= 165317 / 47710 \\ &= 3 \text{ 22187/47710} \end{aligned}$$

Question No: 11

Multi Choice Type Question

Report Error

Without any stoppage, a person travels a certain distance at an average speed of 42 km/h, and with stoppages he covers the same distance at an average speed of 28 km/h. How many minutes per hour does he stop?

☐ 14 minutes

☐ 28 minutes

☐ 19 minutes

☐ None of these

CORRECT

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Hard

Question type: MCQ Single Correct Subject: Aptitude Subject: Quantitative Ability

Subject: Averages

☒ Show solution

Solution 1:

Let the total distance to be covered is 84 kms.

Time taken to cover the distance without stoppage = $84 / 42$ hrs = 2 hrs

Time taken to cover the distance with stoppage = $84 / 28$ = 3 hrs.

Thus, he takes 60 minutes to cover the same distance with stoppage.

Therefore, in 1 hour he stops for 20 minutes.

Question No: 12

Multi Choice Type Question

Report Error

The daily wages of a workers increases by 20% but the number of hours worked by him also drop by 20%. If originally he was getting Rs.200 per week, his wages per week now is (Daily wages directly proportional to hours worked)

☐ Rs.220

☐ Rs.200

☐ Rs.192

CORRECT

☐ Rs.180

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Hard

Question type: MCQ Single Correct Subject: Aptitude Subject: Quantitative Ability

Subject: Percentages

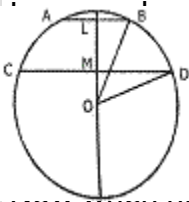
Question No: 13

Multi Choice Type Question

Report Error

☒ Show solution

Solution: Two chords AB, CD of lengths 6 cm, 12 cm respectively of a circle are parallel. If the distance between AB and CD is 3 cm, find the radius of the circle.



Wages of the worker = $200 + 20\% \text{ of } 200 = \text{Rs. } 240$.

Let him work for x hours. The reduced working hours = $(x - 20/100 x)$

When he worked for x hours, his wages = Rs. 240.

When he worked for $0.8x$ hours, his wages will be $240/x \times 0.8 = \text{Rs. } 192$.

☐ 5☐ $3\sqrt{5}$

CORRECT

☐ 2☐ 1

Status: Wrong

Mark obtained: 0/1

Hints used: 0

Level: Medium

Question type: MCQ Single Correct Subject: Aptitude Subject: Quantitative Ability

Subject: Geometry

☒ Show solution

Question No: 14

Multi Choice Type Question

Report Error

Solution 1:

A tuition center which got very much popular in a locality due to its unique way of teaching and conducting tests. If in a certain test which was written by eight girls and twelve boys, three of them scored first mark, then what is the probability that one of the three is a girl and the remaining two are boys?

In right triangle OLB

 $OL^2 + LB^2 = OB^2$ (By Pythagoras theorem)☐ a) 14/75Now in right triangle OMD $OM^2 + MD^2 = OD^2$ ☐ b) 22/55From (1) and (2) $(5+x)^2 + 3^2 = x^2 + 10^2$ ☐ c) 44/95

CORRECT

 $\therefore OB = \sqrt{15} = 3\sqrt{5}$ ☐ d) none of these

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Medium

Question type: MCQ Single Correct Subject: Aptitude Subject: Quantitative Ability

Subject: Probability

☒ Show solution

Solution 1:

Solution :

Total number of students = 20.

Let S be the sample space.

Then, $n(S)$ = number of ways of three scored first mark

$$n(S) = {}^{20}C_3 = 20 \times 19 \times 18 / 2 \times 3 = 20 \times 19 \times 3$$

Let, E be the event of 1 girl and 2 boys.

Therefore, $n(E)$ = number of possible of 1 girl out of 8 and 2 boys out of 12.

$$n(E) = {}^8C_1 \times {}^{12}C_2 = 8 \times 12 \times 11 / 1 \times 2 = 8 \times 6 \times 11.$$

Now, the required probability = $n(E)/n(S) = (8 \times 6 \times 11)/(20 \times 19 \times 3) = 44/95$.

Question No: 15

Multi Choice Type Question

Report Error

In how many ways can 3 women be selected out of 15 women; if one particular woman is always included and two particular women are always excluded?

☐ 66

CORRECT

☐ 77

☐ 88

☐ 99

Status: Correct

Mark obtained: 1/1

Hints used: 0

Level: Medium

Question type: MCQ Single Correct

Subject: Aptitude

Subject: Quantitative Ability

Subject: Combination

☒ Show solution

Solution 1:

$$\text{Number of ways} = (15 - 1 - 2)C_2 = {}^{12}C_2$$

66 ways.

Question No: 16

Multi Choice Type Question

Report Error

A natural number is chosen at random from the first 100 natural numbers. What is the probability that the number chosen is a multiple of 2 or 3 or 5?

☐ 30/100

☐ 1/33

☐ 74/100

CORRECT

☐ 7/10

Status: Wrong

Mark obtained: 0/1

Hints used: 0

Level: Hard

Question type: MCQ Single Correct

Subject: Aptitude

Subject: Quantitative Ability

Subject: Probability

☒ Show solution

Solution 1:

$$n(S)=100$$

$$n(E)=50$$

There are 50 Numbers divisible by 2

There are 33 Numbers divisible by 3.

There are 20 numbers divisible by 5.

we have to remove numbers that are divisible by $2*3 = 6$, by $2*5 = 10$ and by $3*5 = 15$.

There are 16 Numbers divisible by 6.

There are 10 Numbers divisible by 10.

There are 6 Numbers divisible by 15.

The Total to be subtracted is $16+10+6 = 32$. So subtracting 32 from 103, we get 71.

Are we done? No, not yet. Multiples of 30 ($2*3*5$) got subtracted twice, so we have to add multiples of 30 to it.

There are 3 Numbers divisible by 30. So, finally adding 3 to 71, we get 74.

That's the required count. So the probability that the Number chosen at Random is divisible by 2 or 3 or 5 is $74/100$ or 0.74.

Question No: 17

Multi Choice Type Question

Report Error

Vijay's age is $66\frac{2}{3}\%$ more than the sum of age of his three children. If the average age of his three children is 11 years, then find the average age of Vijay and his three children?

☐ 22 years

CORRECT

☐ 20 years

☐ 24 years

☐ 26 years

Status: Wrong

Mark obtained: 0/1

Hints used: 0

Level: Medium

Question type: MCQ Single Correct

Subject: Aptitude

Subject: Quantitative Ability

Subject: Averages

☒ Show solution

Solution 1:

Sum of ages of Vijay's three children = $11 * 3 = 33$ years

So, Vijay's age = $33 * \frac{5}{3} = 55$ years.

Required average = $(55 + 33) / 4$

= 22 years.

Question No: 18

Multi Choice Type Question

Report Error

P represents a number between 3 and 6 and Q represents a number between 15 and 60.

Then $\frac{Q}{P}$ represents a number between

☐ 2.5 and 20

CORRECT

☐ 5 and 20

☐ 5 and 2

☐ 4 and 3

Status: Wrong

Mark obtained: 0/1

Hints used: 0

Level: Hard

Question type: MCQ Single Correct

Subject: Aptitude

Subject: Quantitative Ability

Subject: Number systems

☒ Show solution

Solution 1:

Minimum value of Q/P can be Min of Q / Max of $P \Rightarrow 15/6 = 2.5$

Maximum value of Q/P can be Max of Q / Min of $P \Rightarrow 60/3 = 20$

Number lies between 2.5 to 20

Question No: 19

Multi Choice Type Question

Report Error

6 years ago the average age of A, B, C, and D was 46 years. E joins them now and the average age of all the five is 52 years. The age of E is

- ☐ 45 years
- ☐ 50 years
- ☐ 47 years
- ☐ 52 years

CORRECT

Status: Wrong **Mark obtained:** 0/1 **Hints used:** 0 **Level:** Medium
Question type: MCQ Single Correct **Subject:** Aptitude **Subject:** Quantitative Ability
Subject: Averages

☒ Show solution

Solution 1:

Question No 20 B, C and D six years ago. Multi-Choice Type Question

Report Error

Total age of A, B, C and D now = $(184 + 4 \times 6) = 208$ years.

By what percent the side of square must be increased to increase its area by $(1000/8) \%$?

☐ 33.33%

☐ 50%

CORRECT

☐ 66.66%

☐ 45%

Status: Wrong **Mark obtained:** 0/1 **Hints used:** 0 **Level:** Medium
Question type: MCQ Single Correct **Subject:** Aptitude **Subject:** Quantitative Ability
Subject: Percentages

☒ Show solution

Solution 1:

Let the side of the square initially be 'a', and after increment it becomes b.

It is given that area is increased by $1000/8 \% = 125 \%$

As per question, $b * b / a * a = 225 / 100$

Hence, it should be increased by 50%